N-Partner

如何更新
N-Cloud / N-Reporter Kernel

V006

2024/05/24

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目錄

前言 2

1. for Firmware 6.1.089 3

1.1 N-Reporter 3

1.2 N-Cloud 6

1.2.1 N-Center 6

1.2.2 N-Receiver 9

1.2.3 N-LB 11

2. for Firmware 6.1.102 或之後版本 13

2.1 N-Reporter 13

2.2 N-Cloud 15

2.2.1 N-Center 15

2.2.2 N-Receiver 17

2.2.3 N-LB 19

3. for Kernel 20210101 或之後版本 22

3.1 N-Reporter 22

3.2 N-Cloud 24

3.2.1 N-Center 24

3.2.2 N-Receiver 26

3.2.3 N-LB 28

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前言

本文件描述 N-Cloud / N-Reporter 如何更新 Kernel 。

分為 Firmware 6.1.089 之前版本和 Firmware 6.1.102 之後版本的操作步驟。

N-Cloud / N-Reporter Kernel 下載連結如下

https://www.npartner.com/download/kernel/np_kernel.npz

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1. for Firmware 6.1.089

1.1 N-Reporter

透過終端機模擬軟體 (例如：SecureCRT、XShell 等) 以 SSH 連線到 N-Cloud 命令列介面(CLI)

(預設的 CLI 登入帳號密碼：npartner / npartner)

(1) 查看版本

```
Reporter# show version
```

```
Reporter# show version
Software version : 6.1.089 (20201225-1604)
NP Kernel version : 20200318152210
Serial number : NP-MPT-V-TW-LFBAHGAM
```

(2) 更新 kernel

```
Reporter# system kernel upgrade
```

```
Reporter# system kernel upgrade
```

按 [y] 確認更新 kernel

```
Current Version is [20200318152210]. Do upgrade kernel ? [n]/y y
```

按 [y] 使用 ZMODEM 方式傳檔

```
The transmission of kernel will use "ZMODEM" to transfer file. If you are using 'PUTTY' without "ZMODEM" support. Please press 'q' to quit.
Going to receive kernel via ZMODEM. Please press y when ready. any key to abort. q to quit.y
```

本範例使用 Xshell 連線軟體按 [y]

```
Do you using [XShell] as the termnal ? [y/N]y
```

若使用 SecureCRT 做為 ssh Client，必須回答 n

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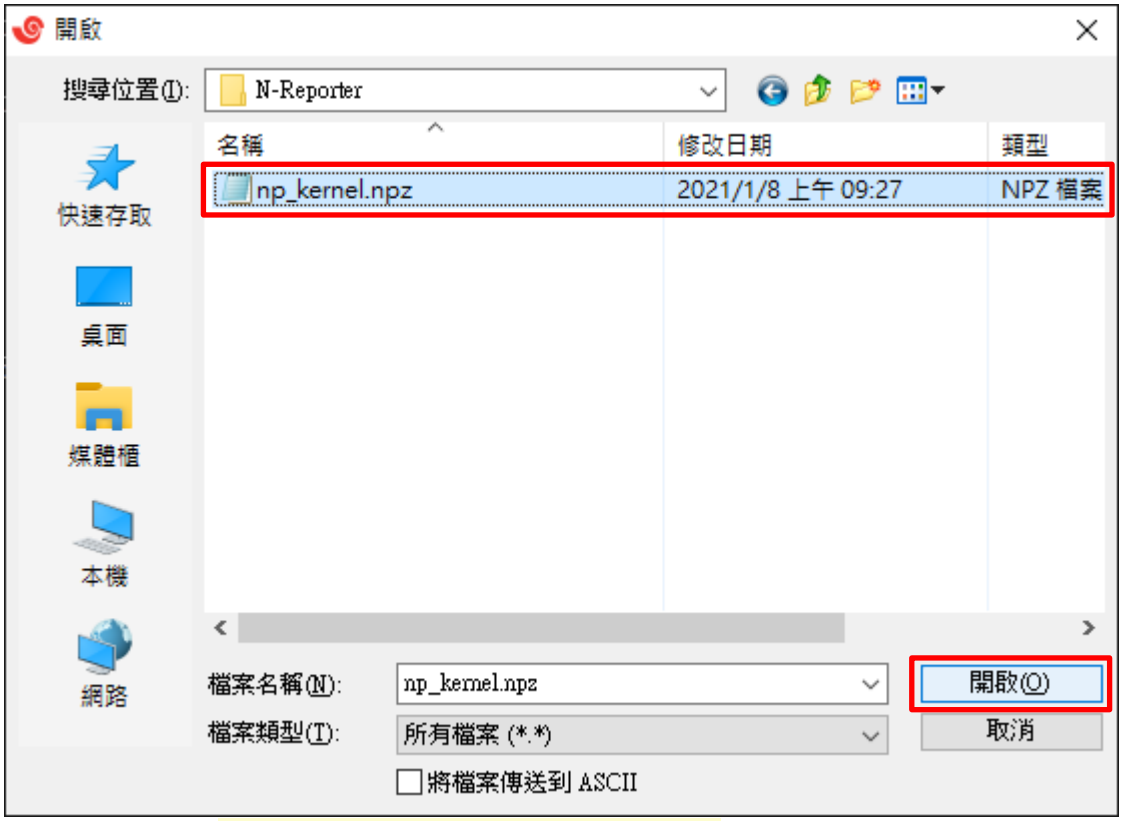
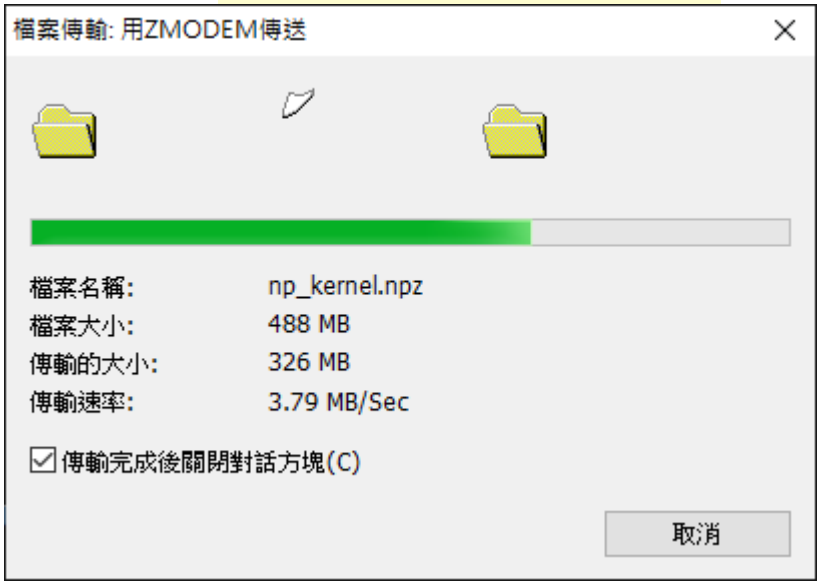
選取 np_kernel.npz 檔案 -> 按 [開啟]



顯示傳檔訊息。 ※更新過程中請勿中斷檔案傳輸及升級過程



確認 MD5 檢驗碼一致按 [y] -> 顯示 kernel 更新完成 kernel Upgrade done

```
Verifying uploaded kernel ... initrd.img-3.16.35_lite_20201106104601: OK
initrd.img-3.16.35_lite_20201106104601: OK
CURRENT FILE: 039964f298af46db0132d82c28897dd4
Please confirm change kernel? [y/n]y

 Initrd FILE: 039964f298af46db0132d82c28897dd4

Kernel Upgrade done.
Please reboot to take effect after kernel upgraded.
```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(3) 重新開機

```
Reporter# reboot
```

```
Reporter# reboot
System prepare to reboot. Please wait a second...........OK.
```

※ 若升級過程有任何錯誤訊息，請勿執行 reboot 重新開機指令，先連絡原廠遠端連線處理。

(4) 查看版本

```
Reporter# show version
```

```
Reporter# show version
Software version : 6.1.089 (20201225-1604)
NP Kernel version : 20201106104601
Serial number : NP-NPT-V-TW-LFBA
```


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1.2 N-Cloud

透過終端機模擬軟體 (例如：SecureCRT、XShell 等) 以 SSH 連線到 N-Cloud 命令列介面(CLI)

(預設的 CLI 登入帳號密碼：npartner / npartner)

1.2.1 N-Center

(1) 查看版本

```
C1# show version
```

```
C1# show version
Software version : 6.1.089 (20201225-1604)
NP Kernel version : 20200318152210
Serial number : [redacted]
```

(2) 更新 kernel

```
C1# system kernel upgrade
```

```
C1# system kernel upgrade
```

按 [y] 確認更新 kernel

```
Current Version is [20200318152210]. Do upgrade kernel ? [n]/y y
```

按 [y] 使用 ZMODEM 方式傳檔

```
The transmission of kernel will use "ZMODEM" to transfer file. If you are using 'PUTTY' without "ZMODEM" support. Please press 'q' to quit.
Going to receive kernel via ZMODEM. Please press y when ready. any key to abort. q to quit.y
```

本範例使用 Xshell 連線軟體按 [y]

```
Do you using [XShell] as the termnal ? [y/N]y
```

若使用 SecureCRT 做為 ssh Client，必須回答 n

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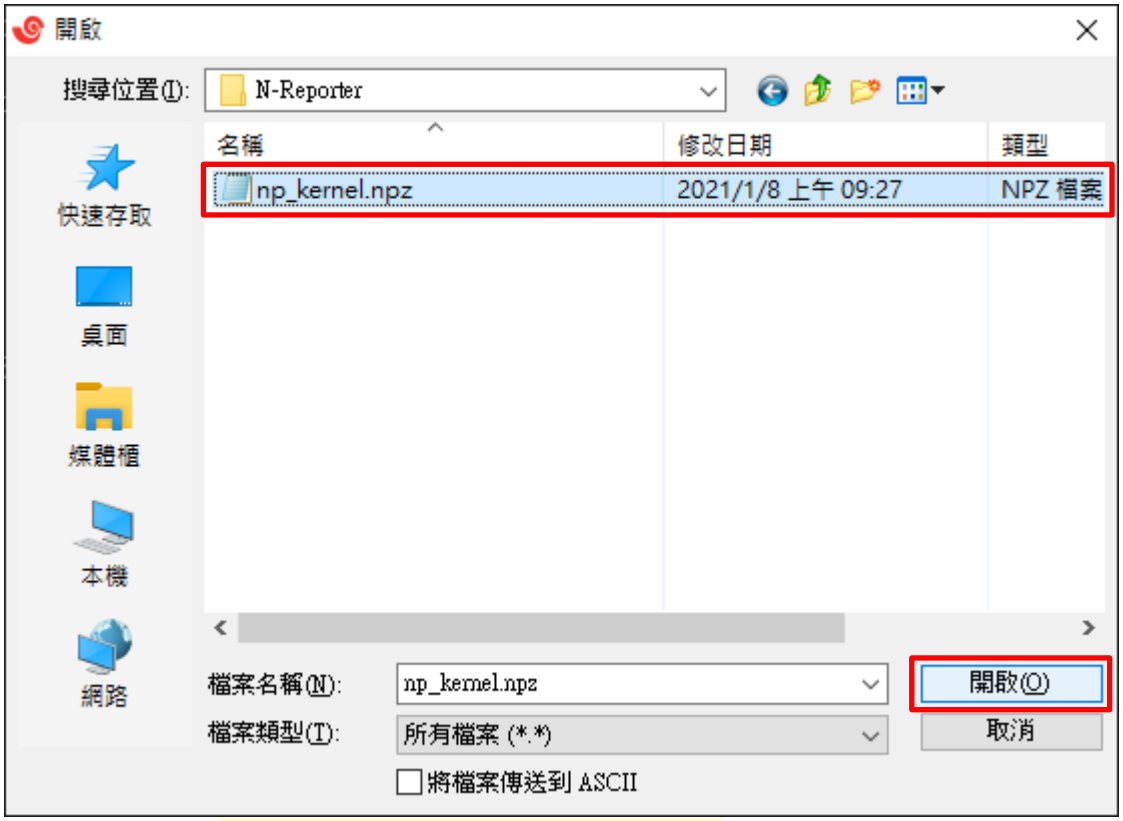
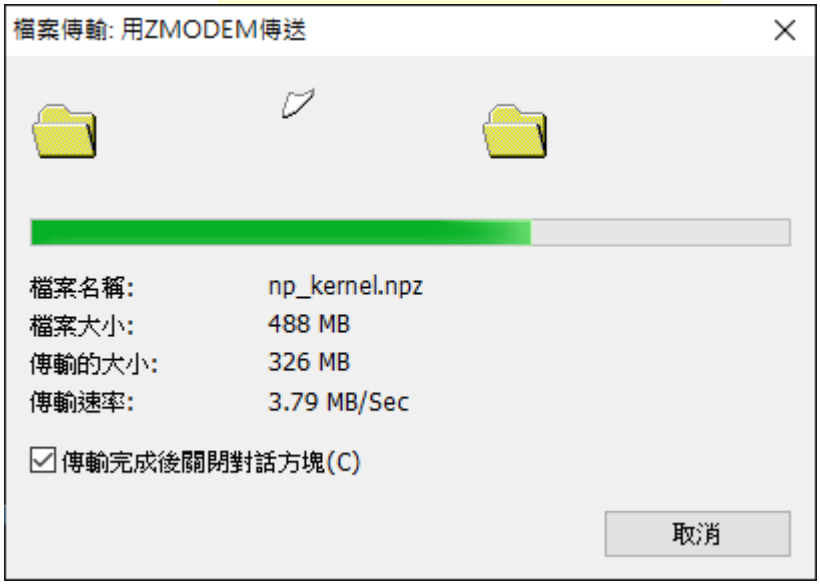
選取 np_kernel.npz 檔案 -> 按 [開啟]



顯示傳檔訊息。 ※更新過程中請勿中斷檔案傳輸及升級過程



確認 MD5 檢驗碼一致按 [y] -> 顯示 kernel 更新完成 kernel Upgrade done

```
Verifying uploaded kernel ... initrd.img-3.16.35_lite_20201106104601: OK
initrd.img-3.16.35_lite_20201106104601: OK
CURRENT FILE: 039964f298af46db0132d82c28897dd4
Please confirm change kernel? [y/n]y

 Initrd FILE: 039964f298af46db0132d82c28897dd4

Kernel Upgrade done.
Please reboot to take effect after kernel upgraded.
```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(3) 重新開機

C1# reboot

```
C1# reboot
System prepare to reboot. Please wait a second...........OK.
```

※ 若升級過程有任何錯誤訊息，請勿執行 reboot 重新開機指令，先連絡原廠遠端連線處理。

(4) 查看版本

C1# show version

```
C1# show version
Software version : 6.1.089 (20201225-1604)
NP Kernel version : 20201106104601
Serial number : NP-NPT-Y-TN-[illegible]
```


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1.2.2 N-Receiver

(1) 查看版本

```
R1# show version
```

```
R1# show version
Software version : 6.1.089 (20201225-1604)
NP Kernel version : 20200318152210
Serial number : NP-NPT-V-TW-KKKUUNKD
```

(2) 更新 kernel

```
R1# system kernel upgrade
```

```
R1# system kernel upgrade
```

按 [y] 確認更新 kernel

```
Current Version is [20200318152210]. Do upgrade kernel ? [n]/y y
```

按 [y] 使用 ZMODEM 方式傳檔

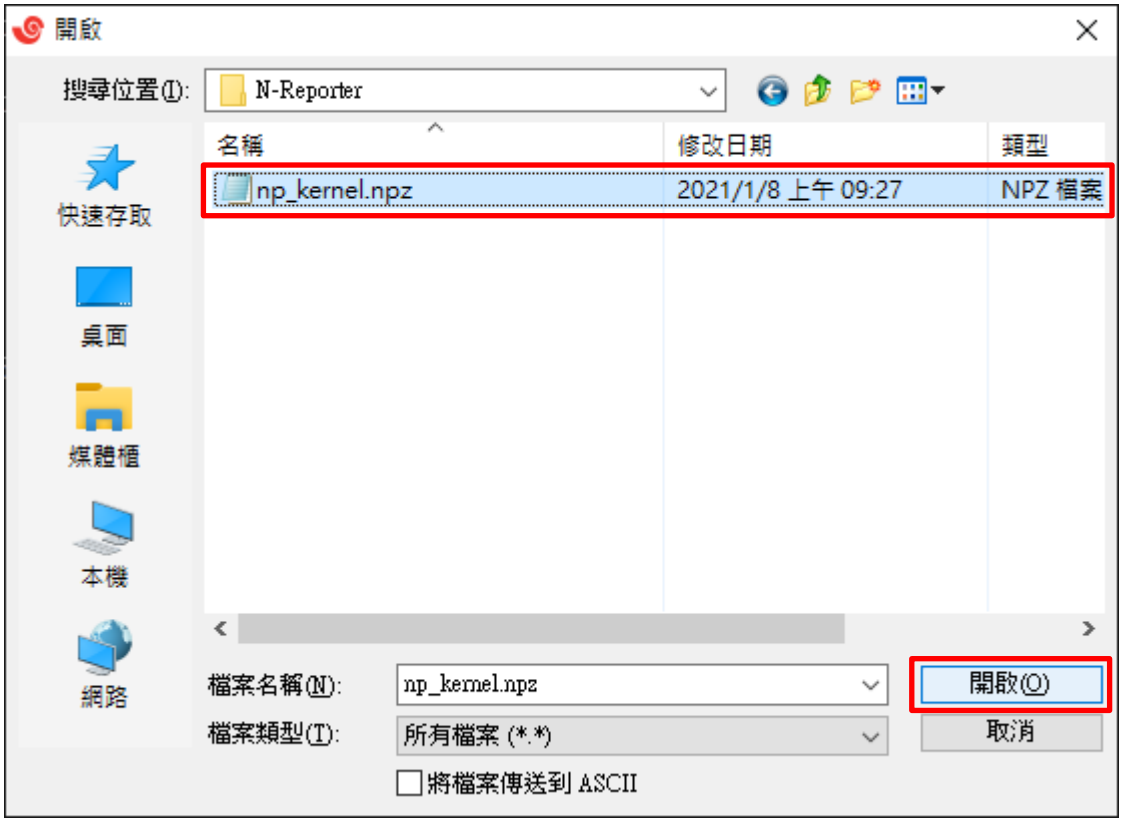
```
The transmission of kernel will use "ZMODEM" to transfer file. If you are using 'PUTTY' without "ZMODEM" support. Please press 'q' to quit.
Going to receive kernel via ZMODEM. Please press y when ready. any key to abort. q to quit.y
```

本範例使用 Xshell 連線軟體按 [y]

```
Do you using [XShell] as the termnal ? [y/N]y
```

若使用 SecureCRT 做為 ssh Client，必須回答 n

選取 np_kernel.npz 檔案 -> 按 [開啟]



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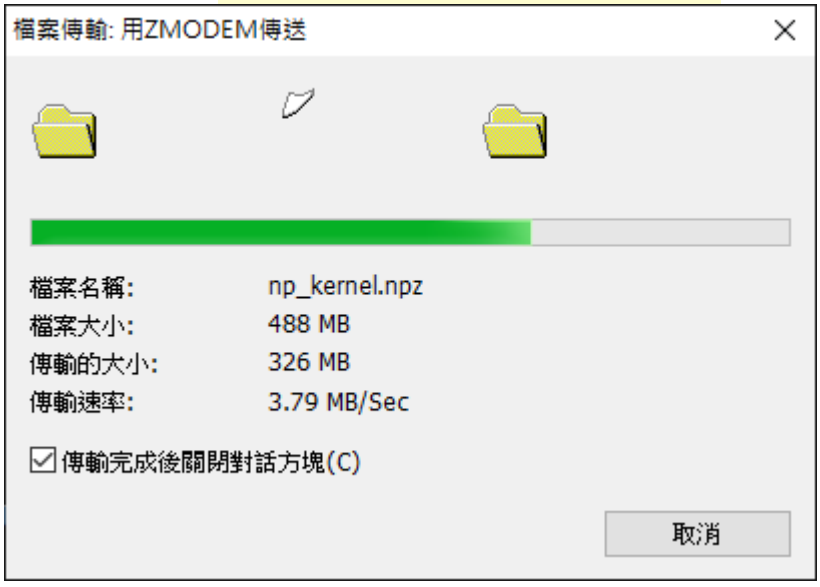
顯示傳檔訊息。 ※更新過程中請勿中斷檔案傳輸及升級過程



確認 MD5 檢驗碼一致按 [y] -> 顯示 kernel 更新完成 kernel Upgrade done

```
Verifying uploaded kernel ... initrd.img-3.16.35_lite_20201106104601: OK
initrd.img-3.16.35_lite_20201106104601: OK
CURRENT FILE: 039964f298af46db0132d82c28897dd4
Please confirm change kernel? [y/n]y

 Initrd FILE: 039964f298af46db0132d82c28897dd4

Kernel Upgrade done.
Please reboot to take effect after kernel upgraded.
```

(3) 重新開機

```
R1# reboot
```

```
R1# reboot
System prepare to reboot. Please wait a second...........OK.
```

※ 若升級過程有任何錯誤訊息，請勿執行 reboot 重新開機指令，先連絡原廠遠端連線處理。

(4) 查看版本

```
R1# show version
```

```
R1# show version
Software version : 6.1.089 (20201225-1604)
NP Kernel version : 20201106104601
Serial number : [illegible]
```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1.2.3 N-LB

(1) 查看版本

```
LB1# show version
```

```
LB1# show version
Software version : 6.1.089 (20201225-1604)
NP Kernel version : 20200318152210
Serial number : NP-NPT-V-TW-RTLMLDOY
```

(2) 更新 kernel

```
LB1# system kernel upgrade
```

```
LB1# system kernel upgrade
```

按 [y] 確認更新 kernel

```
Current Version is [20200318152210]. Do upgrade kernel ? [n]/y y
```

按 [y] 使用 ZMODEM 方式傳檔

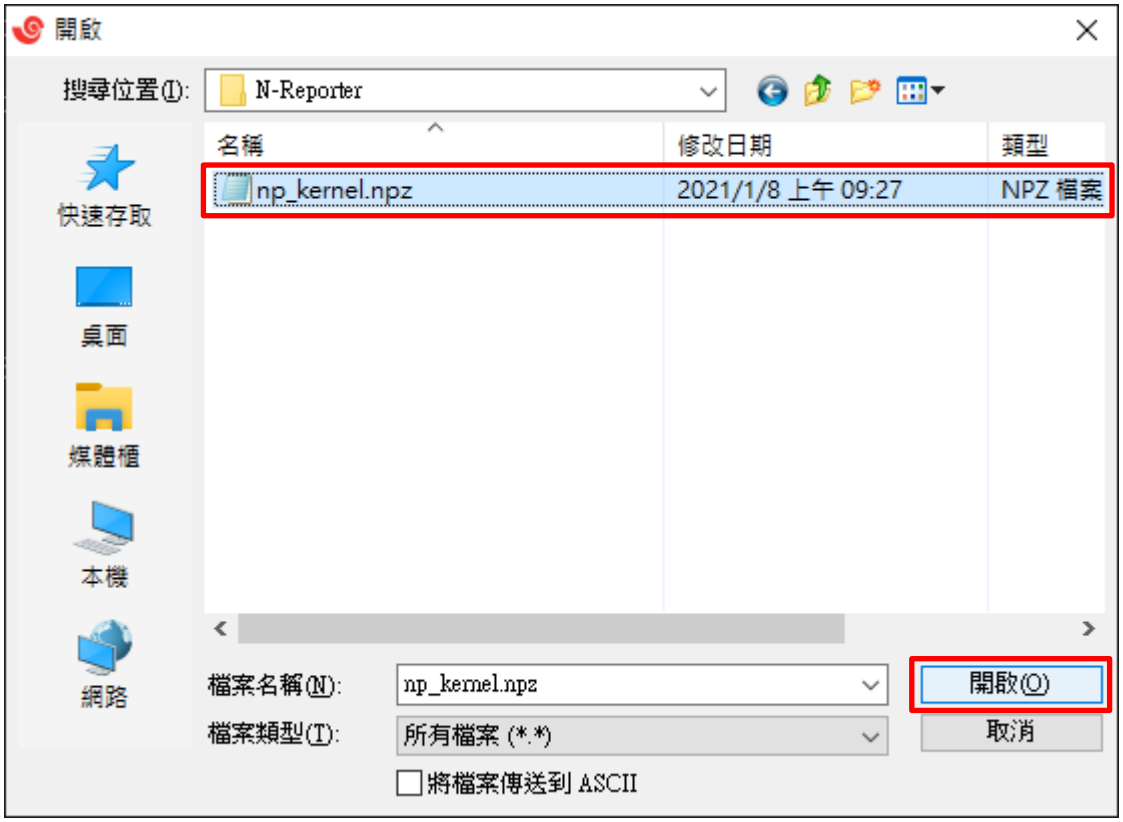
```
The transmission of kernel will use "ZMODEM" to transfer file. If you are using 'PUTTY' without "ZMODEM" support. Please press 'q' to quit.
Going to receive kernel via ZMODEM. Please press y when ready. any key to abort. q to quit.y
```

本範例使用 Xshell 連線軟體按 [y]

```
Do you using [XShell] as the termnal ? [y/N]y
```

若使用 SecureCRT 做為 ssh Client，必須回答 n

選取 np_kernel.npz 檔案 -> 按 [開啟]



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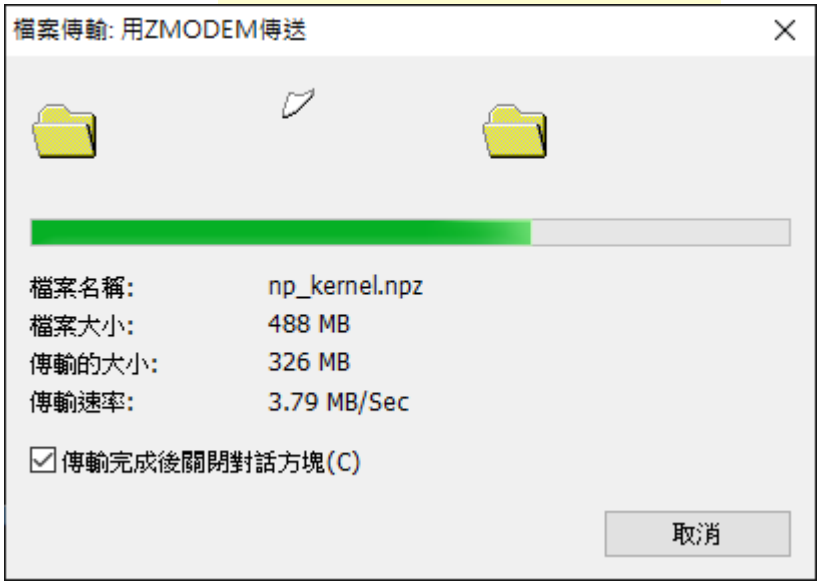
顯示傳檔訊息。 ※更新過程中請勿中斷檔案傳輸及升級過程



確認 MD5 檢驗碼一致按 [y] -> 顯示 kernel 更新完成 kernel Upgrade done

```
Verifying uploaded kernel ... initrd.img-3.16.35_lite_20201106104601: OK
initrd.img-3.16.35_lite_20201106104601: OK
CURRENT FILE: 039964f298af46db0132d82c28897dd4
Please confirm change kernel? [y/n]y

 Initrd FILE: 039964f298af46db0132d82c28897dd4

Kernel Upgrade done.
Please reboot to take effect after kernel upgraded.
```

(3) 重新開機

```
LB1# reboot
```

```
LB1# reboot
System prepare to reboot. Please wait a second..........OK.
```

※ 若升級過程有任何錯誤訊息，請勿執行 reboot 重新開機指令，先連絡原廠遠端連線處理。

(4) 查看版本

```
LB1# show version
```

```
LB1# show version
Software version : 6.1.089 (20201225-1604)
NP Kernel version : 20201106104601
Serial number : [illegible]
```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2. for Firmware 6.1.102 或之後版本

2.1 N-Reporter

透過終端機模擬軟體 (例如：SecureCRT、XShell、Putty 等) 以 SSH 連線到 N-Cloud 命令列介面(CLI)

(預設的 CLI 登入帳號密碼：npartner / npartner)

本範例使用 HTTP/HTTPS 方式傳檔

(1) 查看版本

```
Reporter# show version
```

```
Reporter# show version
Software version : 6.1.187 (20230525-0948)
NP Kernel version : 20220330164455
Serial number :
```

(2) 更新 kernel

```
Reporter# system kernel upgrade
```

```
Reporter# system kernel upgrade
```

按 [y] 確認更新 kernel

```
Current Version is [20220330164455]. Do upgrade kernel ? [n]/y
```

本範例使用 HTTP/HTTPS 方式傳檔按 [3]

```
Please choose a file transmission type as the following.
*[1] SZ/RZ
 [2] SCP/SFTP
 [3] HTTP/HTTPS
You Choose : 3
```

輸入 URL 路徑檔名

```
Please provide target URL such as "http://example.com/path/file"
Your URL is : http://192.168.5.129/np_kernel.npz
```

顯示傳檔訊息。 ※更新過程中請勿中斷檔案傳輸及升級過程

```
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
 61  488M   61  299M    0     0  9413k      0  0:00:53  0:00:32  0:00:21 9444k
```


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確認 MD5 檢驗碼一致按 [y] -> 顯示 kernel 更新完成 kernel Upgrade done

```
Verifying uploaded kernel ... initrd.img-3.16.35_lite_20201106104601: OK
initrd.img-3.16.35_lite_20201106104601: OK
CURRENT FILE: 039964f298af46db0132d82c28897dd4
Please confirm change kernel? [y/n]y

 Initrd FILE: 039964f298af46db0132d82c28897dd4

Kernel Upgrade done.
Please reboot to take effect after kernel upgraded.
```

(3) 重新開機

```
Reporter# reboot
```

```
Reporter# reboot
System prepare to reboot. Please wait a second...........OK.
```

※ 若升級過程有任何錯誤訊息，請勿執行 reboot 重新開機指令，先連絡原廠遠端連線處理。

(4) 查看版本

```
Reporter# show version
```

```
Reporter# show version
Software version : 6.1.187 (20230602-1402)
NP Kernel version : 20230109140741
Serial number : [redacted]
```


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2.2 N-Cloud

透過終端機模擬軟體 (例如：SecureCRT、XShell、Putty 等) 以 SSH 連線到 N-Cloud 命令列介面(CLI)

(預設的 CLI 登入帳號密碼：npartner / npartner)

2.2.1 N-Center

本範例使用 HTTP/HTTPS 方式傳檔

(1) 查看版本

```
C1# show version
```

```
C1# show version
Software version : 6.1.187 (20230428-1122)
NP Kernel version : 20220622154856
Serial number : [redacted]
```

(2) 更新 kernel

```
C1# system kernel upgrade
```

```
C1# system kernel upgrade
```

按 [y] 確認更新 kernel

```
Current Version is [20220622154856]. Do upgrade kernel ? [n]/y
```

本範例使用 HTTP/HTTPS 方式傳檔按 [3]

```
Please choose a file transmission type as the following.
*[1] SZ/RZ
 [2] SCP/SFTP
 [3] HTTP/HTTPS
You Choose : 3
```

輸入 URL 路徑檔名

```
Please provide target URL such as "http://example.com/path/file"
Your URL is : http://192.168.5.129/np_kernel.npz
```

顯示傳檔訊息。 ※更新過程中請勿中斷檔案傳輸及升級過程

```
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
 61  488M   61  299M    0     0  9413k      0  0:00:53  0:00:32  0:00:21 9444k
```


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確認 MD5 檢驗碼一致按 [y] -> 顯示 kernel 更新完成 kernel Upgrade done

```
Verifying uploaded kernel ... initrd.img-3.16.35_lite_20201106104601: OK
initrd.img-3.16.35_lite_20201106104601: OK
CURRENT FILE: 039964f298af46db0132d82c28897dd4
Please confirm change kernel? [y/n]y

 Initrd FILE: 039964f298af46db0132d82c28897dd4

Kernel Upgrade done.
Please reboot to take effect after kernel upgraded.
```

(3) 重新開機

C1# reboot

```
C1# reboot
System prepare to reboot. Please wait a second...........OK.
```

※ 若升級過程有任何錯誤訊息，請勿執行 reboot 重新開機指令，先連絡原廠遠端連線處理。

(4) 查看版本

C1# show version

```
C1# show version
Software version : 6.1.187 (20230606-1517)
NP Kernel version : 20230516170313
Serial number :
```


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2.2.2 N-Receiver

本範例使用 SCP/SFTP 方式傳檔

(1) 查看版本

```
R1# show version
```

```
R1# show version
Software version : 6.1.187 (20230606-1517)
NP Kernel version : 20210917170117
Serial number :
```

(2) 更新 kernel

```
R1# system kernel upgrade
```

```
R1# system kernel upgrade
```

按 [y] 確認更新 kernel

```
Current Version is [20210917170117]. Do upgrade kernel ? [n]/y
```

本範例使用 SCP/SFTP 方式傳檔按 [2]

```
Please choose a file transmission type as the following.
*[1] SZ/RZ
 [2] SCP/SFTP
 [3] HTTP/HTTPS
You Choose : 2
```

輸入 SCP 路徑檔名和密碼

```
Please provide target SCP path such as "user@example.com:/path/file"
Your SCP Path is : npartner@192.168.5.129:C:/tmp/np_kernel.npz
Warning: Permanently added '192.168.5.129' (ECDSA) to the list of known hosts.
npartner@192.168.5.129's password:
```

顯示傳檔訊息。 ※更新過程中請勿中斷檔案傳輸及升級過程

```
np_kernel.npz                                    74%  366MB  19.1MB/s   00:06 ETA
```

確認 MD5 檢驗碼一致按 [y] -> 顯示 kernel 更新完成 kernel Upgrade done

```
Verifying uploaded kernel ... initrd.img-3.16.35_lite_20201106104601: OK
initrd.img-3.16.35_lite_20201106104601: OK
CURRENT FILE: 039964f298af46db0132d82c28897dd4
Please confirm change kernel? [y/n]y

 Initrd FILE: 039964f298af46db0132d82c28897dd4

Kernel Upgrade done.
Please reboot to take effect after kernel upgraded.
```


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(3) 重新開機

```
R1# reboot
```

```
R1# reboot
System prepare to reboot. Please wait a second..........OK.
```

※ 若升級過程有任何錯誤訊息，請勿執行 reboot 重新開機指令，先連絡原廠遠端連線處理。

(4) 查看版本

```
R1# show version
```

```
R1# show version
Software version : 6.1.187 (20230428-1122)
NP Kernel version : 20220622154856
Serial number : [redacted]
```


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2.2.3 N-LB

本範例使用 SZ/RZ 方式傳檔

(1) 查看版本

```
LB1# show version
```

```
LB1# show version
Software version : 6.1.187 (20230428-1122)
NP Kernel version : 20220622154856
Serial number :
```

(2) 更新 kernel

```
LB1# system kernel upgrade
```

```
LB1# system kernel upgrade
```

按 [y] 確認更新 kernel

```
Current Version is [20220622154856]. Do upgrade kernel ? [n]/y
```

本範例使用 SZ/RZ 方式傳檔按 [1]

```
Please choose a file transmission type as the following.
*[1] SZ/RZ
 [2] SCP/SFTP
 [3] HTTP/HTTPS
You Choose : 1
```

按 [y] 使用 ZMODEM 方式傳檔

```
The transmission of kernel will use "ZMODEM" to transfer file. If you are using 'PUTTY' without "ZMODEM" support. Please press 'q' to quit.
Going to receive kernel via ZMODEM. Please press y when ready. any key to abort. q to quit.y
```

本範例使用 Xshell 連線軟體按 [y]

```
Do you using [XShell] as the termnal ? [y/N]y
```

若使用 SecureCRT 做為 ssh Client，必須回答 n

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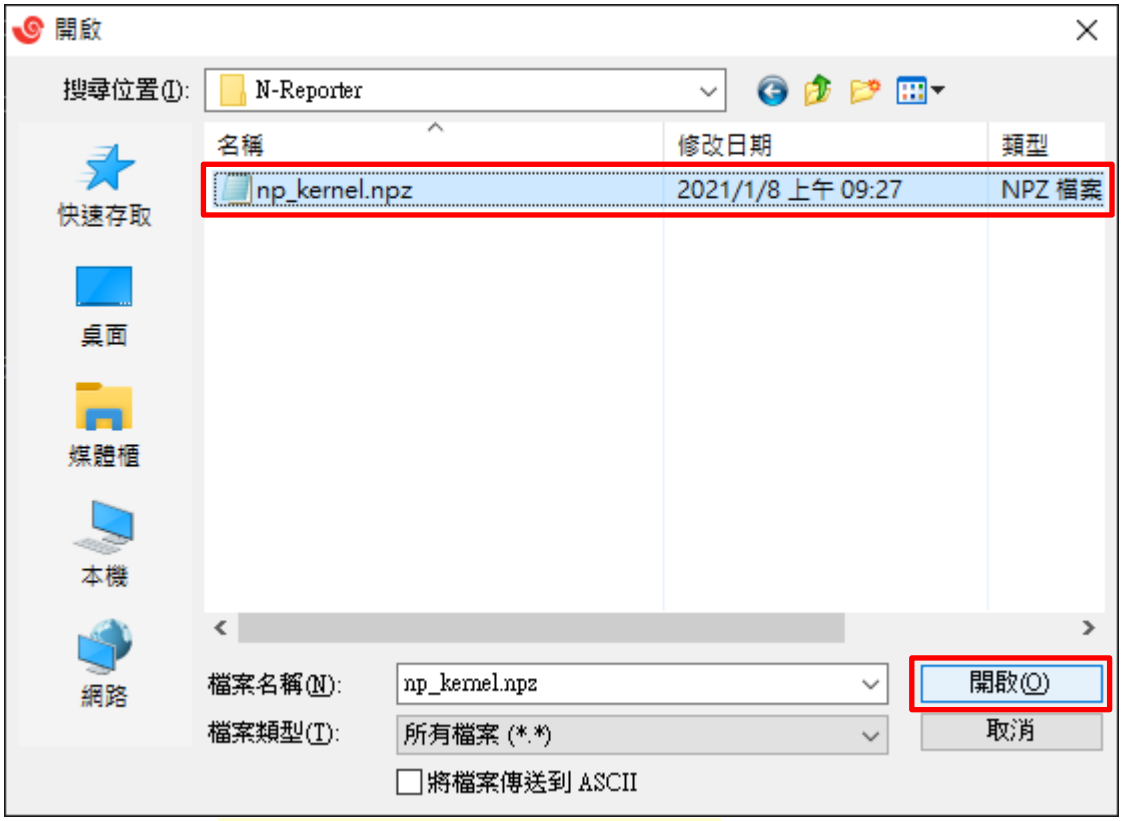
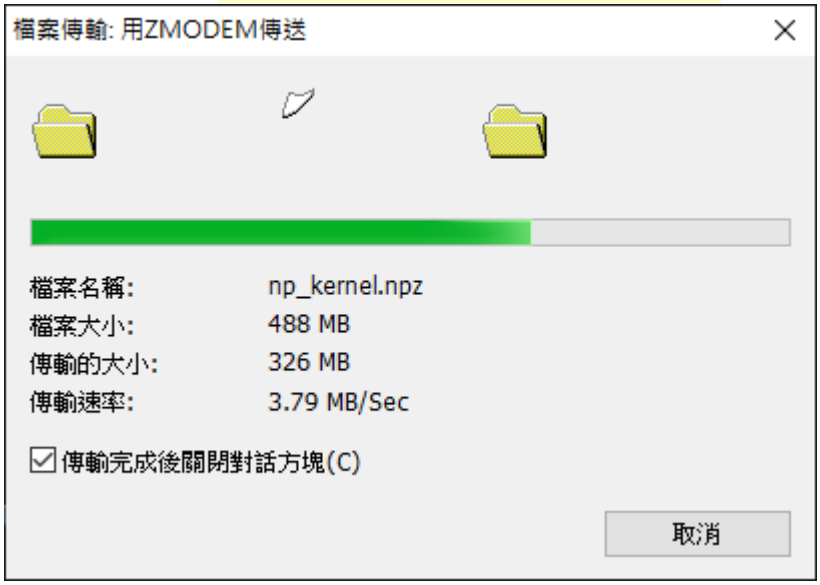
選取 np_kernel.npz 檔案 -> 按 [開啟]



顯示傳檔訊息。 ※更新過程中請勿中斷檔案傳輸及升級過程



確認 MD5 檢驗碼一致按 [y] -> 顯示 kernel 更新完成 kernel Upgrade done

```
Verifying uploaded kernel ... initrd.img-3.16.35_lite_20201106104601: OK
initrd.img-3.16.35_lite_20201106104601: OK
CURRENT FILE: 039964f298af46db0132d82c28897dd4
Please confirm change kernel? [y/n]y

 Initrd FILE: 039964f298af46db0132d82c28897dd4

Kernel Upgrade done.
Please reboot to take effect after kernel upgraded.
```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(3) 重新開機

LB1# reboot

```
LB1# reboot
System prepare to reboot. Please wait a second...........OK.
```

※ 若升級過程有任何錯誤訊息，請勿執行 reboot 重新開機指令，先連絡原廠遠端連線處理。

(4) 查看版本

LB1# show version

```
LB1# show version
Software version : 6.1.187 (20230606-1517)
NP Kernel version : 20230516170313
Serial number :
```


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3. for Kernel 20210101 或之後版本

更新 Kernel 過程，會檢查 eth0 MAC 位址和 eth1 MAC 位址，若顯示 STOP! The MAC address of ethernet not ordered correctly. 訊息，請勿更新 Kernel 按 [n] 跳離更新過程，先連絡原廠遠端連線處理。

```
LB2# system kernel upg
Current Version is [202011061046O1]. Do upgrade kernel ? [n]/y y
STOP! The MAC address of ethernet not ordered correctly. Please contact N-Partner TAC for further help. continue to upgrade ? [N/y]n Aborte
d.
LB2# shutdown
```

3.1 N-Reporter

透過終端機模擬軟體 (例如：SecureCRT、XShell、Putty 等) 以 SSH 連線到 N-Cloud 命令列介面(CLI)

(預設的 CLI 登入帳號密碼：npartner / npartner)

更新 Kernel: 20210101 之後版本，如果 eth0 MAC 位址大於 eth1 MAC 位址時，將會進行介面交換。若開啟網頁顯示需重新申請 License 時，請附上 machine.dat 檔案和郵件註明升級 Kernel: 20210101 之後版本所影響並註明 Firmware 版本和序號。

本範例使用 HTTP/HTTPS 方式傳檔

(1) 查看版本

```
Reporter# show version
```

```
Reporter# show version
Software version : 6.1.187 (20230525-0948)
NP Kernel version : 20220330164455
Serial number : [redacted]
```

(2) 更新 kernel

```
Reporter# system kernel upgrade
```

```
Reporter# system kernel upgrade
```

按 [y] 確認更新 kernel

```
Current Version is [20220330164455]. Do upgrade kernel ? [n]/y
```

本範例使用 HTTP/HTTPS 方式傳檔按 [3]

```
Please choose a file transmission type as the following.
*[1] SZ/RZ
 [2] SCP/SFTP
 [3] HTTP/HTTPS
You Choose : 3
```

輸入 URL 路徑檔名

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```
Please provide target URL such as "http://example.com/path/file"
Your URL is : http://192.168.5.37/np_kernel.npz
```

顯示傳檔訊息。 ※更新過程中請勿中斷檔案傳輸及升級過程

```
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
 38 1005M   38  390M    0     0  3357k      0  0:05:06  0:01:59  0:03:07  9.9M
```

顯示 kernel 上傳新完成 Verifying uploaded kernel -> 確認更新 kernel 按 [y] -> 驗證 kernel 檔案並更新

```
Verifying uploaded kernel ... OK


Please confirm change kernel? [y/n]y
Processing upgrade ... done

Verifying files again after upgrade ... OK

Kernel Upgrade done.
Please reboot to take effect after kernel upgraded.
```

(3) 重新開機

```
Reporter# reboot
```

```
Reporter# reboot
System prepare to reboot. Please wait a second...........OK.
```

※ 若升級過程有任何錯誤訊息，請勿執行 reboot 重新開機指令，先連絡原廠遠端連線處理。

(4) 查看版本

```
Reporter# show version
```

```
Reporter# show version
Software version : 6.1.187 (20230602-1402)
NP Kernel version : 20230109140741
Serial number : [redacted]
```


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3.2 N-Cloud

透過終端機模擬軟體 (例如：SecureCRT、XShell、Putty 等) 以 SSH 連線到 N-Cloud 命令列介面(CLI)

(預設的 CLI 登入帳號密碼：npartner / npartner)

3.2.1 N-Center

更新 Kernel: 20210101 之後版本，如果 eth0 MAC 位址大於 eth1 MAC 位址時，將會進行介面交換。若開啟網頁顯示需重新申請 License 時，請附上 machine.dat 檔案和郵件註明升級 Kernel: 20210101 之後版本所影響並註明 Firmware 版本和序號。

本範例使用 HTTP/HTTPS 方式傳檔

(1) 查看版本

```
C1# show version
```

```
C1# show version
Software version : 6.1.187 (20230428-1122)
NP Kernel version : 20220622154856
Serial number : [redacted]
```

(2) 更新 kernel

```
C1# system kernel upgrade
```

```
C1# system kernel upgrade
```

按 [y] 確認更新 kernel

```
Current Version is [20220622154856]. Do upgrade kernel ? [n]/y
```

本範例使用 HTTP/HTTPS 方式傳檔按 [3]

```
Please choose a file transmission type as the following.
*[1] SZ/RZ
 [2] SCP/SFTP
 [3] HTTP/HTTPS
You Choose : 3
```

輸入 URL 路徑檔名

```
Please provide target URL such as "http://example.com/path/file"
Your URL is : http://192.168.5.129/np_kernel.npz
```

顯示傳檔訊息。 ※更新過程中請勿中斷檔案傳輸及升級過程

```
Your URL is : http://192.168.5.37/np_kernel.npz
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
 55 1005M   55  553M    0     0  45.5M      0  0:00:22  0:00:12  0:00:10 45.4M
```


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顯示 kernel 上傳新完成 Verifying uploaded kernel -> 確認更新 kernel 按 [y] -> 驗證 kernel 檔案並更新

```
Verifying uploaded kernel ... OK


Please confirm change kernel? [y/n]y
Processing upgrade ... done

Verifying files again after upgrade ... OK

Kernel Upgrade done.
Please reboot to take effect after kernel upgraded.
```

(3) 重新開機

```
C1# reboot
```

```
C1# reboot
System prepare to reboot. Please wait a second...........OK.
```

※ 若升級過程有任何錯誤訊息，請勿執行 reboot 重新開機指令，先連絡原廠遠端連線處理。

(4) 查看版本

```
C1# show version
```

```
C1# show version
Software version : 6.1.187 (20230606-1517)
NP Kernel version : 20230516170313
Serial number :
```


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3.2.2 N-Receiver

更新 Kernel: 20210101 之後版本，如果 eth0 MAC 位址大於 eth1 MAC 位址時，將會進行介面交換。若開啟網頁顯示需重新申請 License 時，請附上 machine.dat 檔案和郵件註明升級 Kernel: 20210101 之後版本所影響並註明 Firmware 版本和序號。

本範例使用 SCP/SFTP 方式傳檔

(1) 查看版本

```
R1# show version
```

```
R1# show version
Software version : 6.1.187 (20230606-1517)
NP Kernel version : 20210917170117
Serial number :
```

(2) 更新 kernel

```
R1# system kernel upgrade
```

```
R1# system kernel upgrade
```

按 [y] 確認更新 kernel

```
Current Version is [20210917170117]. Do upgrade kernel ? [n]/y
```

本範例使用 SCP/SFTP 方式傳檔按 [2]

```
Please choose a file transmission type as the following.
*[1] SZ/RZ
 [2] SCP/SFTP
 [3] HTTP/HTTPS
You Choose : 2
```

輸入 SCP 路徑檔名和密碼

```
Please provide target SCP path such as "user@example.com:/path/file"
Your SCP Path is : root@192.168.8.189:/tmp/np_kernel.npz
Warning: Permanently added '192.168.8.189' (ECDSA) to the list of known hosts.
root@192.168.8.189's password:
```

顯示傳檔訊息。 ※更新過程中請勿中斷檔案傳輸及升級過程

```
np_kernel.npz                                 48%  492MB  23.2MB/s   00:22 ETA
```


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顯示 kernel 上傳新完成 Verifying uploaded kernel -> 確認更新 kernel 按 [y] -> 驗證 kernel 檔案並更新

```
Verifying uploaded kernel ... OK


Please confirm change kernel? [y/n]y
Processing upgrade ... done

Verifying files again after upgrade ... OK

Kernel Upgrade done.
Please reboot to take effect after kernel upgraded.
```

(3) 重新開機

```
R1# reboot
```

```
R1# reboot
System prepare to reboot. Please wait a second...........OK.
```

※ 若升級過程有任何錯誤訊息，請勿執行 reboot 重新開機指令，先連絡原廠遠端連線處理。

(4) 查看版本

```
R1# show version
```

```
R1# show version
Software version : 6.1.187 (20230428-1122)
NP Kernel version : 20220622154856
Serial number :
```


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3.2.3 N-LB

更新 Kernel: 20210101 之後版本，如果 eth0 MAC 位址大於 eth1 MAC 位址時，將會進行介面交換。若開啟網頁顯示需重新申請 License 時，請附上 machine.dat 檔案和郵件註明升級 Kernel: 20210101 之後版本所影響並註明 Firmware 版本和序號。

本範例使用 SZ/RZ 方式傳檔

(1) 查看版本

```
LB1# show version
```

```
LB1# show version
Software version : 6.1.187 (20230428-1122)
NP Kernel version : 20220622154856
Serial number :
```

(2) 更新 kernel

```
LB1# system kernel upgrade
```

```
LB1# system kernel upgrade
```

按 [y] 確認更新 kernel

```
Current Version is [20220622154856]. Do upgrade kernel ? [n]/y
```

本範例使用 SZ/RZ 方式傳檔按 [1]

```
Please choose a file transmission type as the following.
*[1] SZ/RZ
 [2] SCP/SFTP
 [3] HTTP/HTTPS
You Choose : 1
```

按 [y] 使用 ZMODEM 方式傳檔

```
The transmission of kernel will use "ZMODEM" to transfer file. If you are using 'PUTTY' without "ZMODEM" support. Please press 'q' to quit.
Going to receive kernel via ZMODEM. Please press y when ready. any key to abort. q to quit.y
```

本範例使用 Xshell 連線軟體按 [y]

```
Do you using [XShell] as the termnal ? [y/N]y
```

若使用 SecureCRT 做為 ssh Client，必須回答 n

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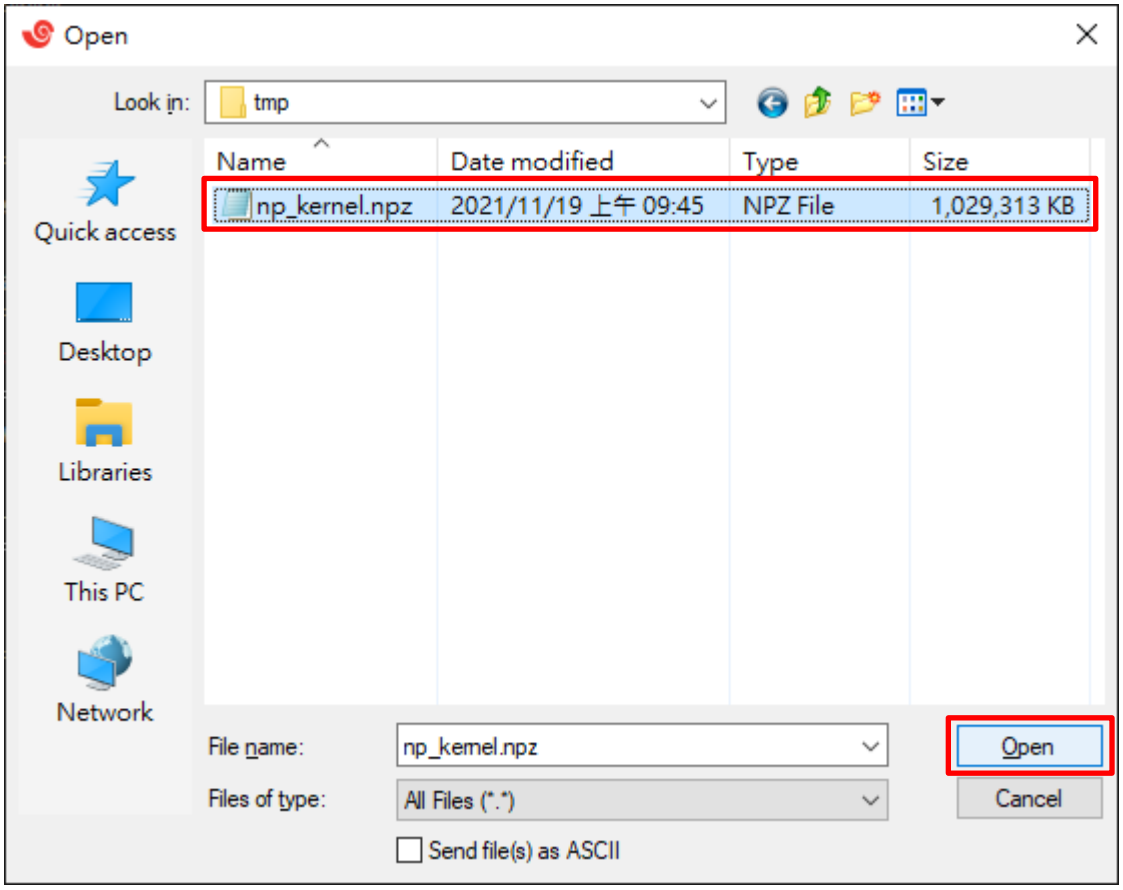
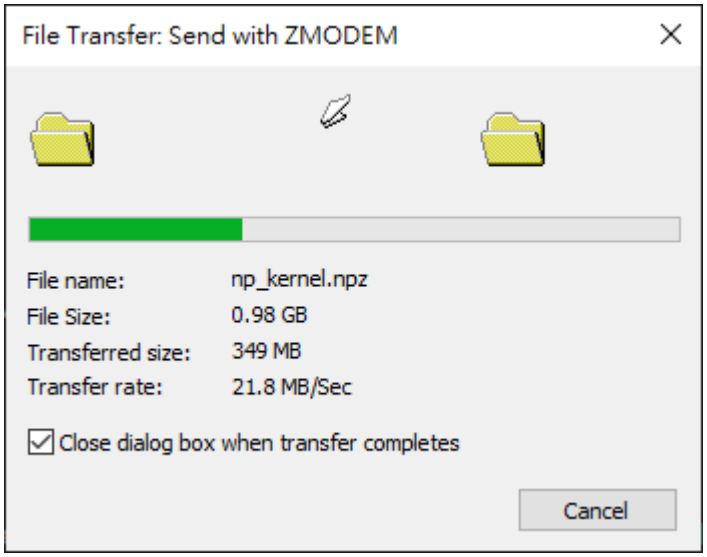
選取 np_kernel.npz 檔案 -> 按 [Open]



顯示傳檔訊息。 ※更新過程中請勿中斷檔案傳輸及升級過程



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顯示 kernel 上傳新完成 Verifying uploaded kernel -> 確認更新 kernel 按 [y] -> 驗證 kernel 檔案並更新

```
Verifying uploaded kernel ... OK


Please confirm change kernel? [y/n]y
Processing upgrade ... done

Verifying files again after upgrade ... OK

Kernel Upgrade done.
Please reboot to take effect after kernel upgraded.
```

(3) 重新開機

```
LB1# reboot
```

```
LB1# reboot
System prepare to reboot. Please wait a second...........OK.
```

※ 若升級過程有任何錯誤訊息，請勿執行 reboot 重新開機指令，先連絡原廠遠端連線處理。

(4) 查看版本

```
LB1# show version
```

```
LB1# show version
Software version : 6.1.187 (20230606-1517)
NP Kernel version : 20230516170313
Serial number :
```


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